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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/726,187	12/01/2003	Shanker Mo	15749/453	3436
69638 7590 07/12/2007 KAMRATH & ASSOCIATES P.A. 4825 OLSON MEMORIAL HIGHWAY SUITE 245 GOLDEN VALLEY, MN 55422				
			EXAMINER BERGIN, JAMES S	
			ART UNIT 3641	PAPER NUMBER
			MAIL DATE 07/12/2007	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/726,187

Applicant(s)

MO, SHANKER

Examiner

James S. Bergin

Art Unit

3641

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 01 December 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-14 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 01 December 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claims 1-11, 13 and 14 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for a rocket comprising stabilizing fins integrally formed with the outer wall of the rear skirt, does not reasonably provide enablement for a rocket that does not comprise such fins. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the invention commensurate in scope with these claims. The specification does not disclose an embodiment that does not comprise stabilizing fins integrally formed with the outer wall of the rear skirt, such a claimed embodiment being outside the scope of the disclosure.

3. Claims 1-10 and 12-14 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for a rocket in which the rear skirt has a tapered inner wall to mate with the tapered second end of the main body, does not reasonably provide enablement for a rocket comprising a rear skirt that is not tapered to mate with the tapered second end of the main body. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the invention commensurate in scope with these claims.

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An embodiment of the claimed rocket comprising rear skirt with an un-tapered inner wall is outside the scope of the disclosed invention.

4. Claims 1, 2 and 7-14 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for a rocket comprising 1) the disclosed annular resting flange on the periphery of the second end of the main body and 2) the reinforcement ribs formed on the inner wall of the rear skirt rested on the resting flange of the main body does not reasonably provide enablement for a rocket that does not comprise this annular resting flange/ reinforcement ribs arrangement. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the invention commensurate in scope with these claims. An embodiment of the claimed rocket that does not comprise the annular resting flange/ reinforcement ribs arrangement is beyond the scope of the disclosed invention.

5. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

6. Claims 1-11, 13 and 14 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential elements, such omission amounting to a gap between the elements. See MPEP § 2172.01. The omitted elements are: stabilizing fins integrally formed with the outer wall of the rear skirt.

7. Claims 1-10 and 12-14 rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential elements, such omission amounting to a gap

between the elements. See MPEP § 2172.01. The omitted elements are: the rear skirt has a tapered inner wall to mate with the tapered second end of the main body.

8. Claims 1, 2 and 7-14 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential elements, such omission amounting to a gap between the elements. See MPEP § 2172.01. The omitted elements are: 1) the disclosed annular resting flange on the periphery of the second end of the main body and 2) the reinforcement ribs formed on the inner wall of the rear skirt rested on the resting flange of the main body.

Claim Rejections - 35 USC § 102

9. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

10. Claims 1-3, 5, 7-12 and 14 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Kownacki et al. (US 6,347,623 B1).

Kownacki et al. clearly anticipate the applicant's rocket as claimed: see especially Kownacki et al. Figs. 1, 21, 22, 34, 35, 36 and the supporting sections of the specification; rear skirt 712; a plastic main body 24; warhead 710; nozzle 716.

Regarding claim 3, the inner wall of the rear skirt 712 is threaded with transverse, arcuately shaped and tapered reinforcing ribs; the distal end of the main body 24 is threaded, one of the ribs thereof considered to be a peripherally formed annular flange.

Regarding claims 7-9, the threaded engagement between the connecting portion 704 of the main body and the semi-circularly shaped warhead connector 708, comprises in a effect a series of interlocking flanges and grooves that lock the portion 704 and the warhead connector 708 together.

Conclusion

11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See the attached PTO-FORM 892.
12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to James S. Bergin whose telephone number is 571-272-6872. The examiner can normally be reached on Monday - Wednesday and Friday, 8.30 - 5.30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Carone can be reached on 571-272-6873. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO

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Customer Service Representative or access to the automated information system, call
800-786-9199 (IN USA OR CANADA) or 571-272-1000.

James S. Bergin
Primary Examiner
Art Unit 3641

/James S. Bergin/